

WHAT IS CLAIMED IS:

1. A method of manufacturing a liquid crystal display, the method comprising:

forming a sealant on a first panel;

5 dropping liquid crystal on the first panel to form a plurality of liquid crystal dots;

assembling a second panel with the first panel,

wherein the first and the second panels have a striped array of pixel areas, each stripe extending in a first direction, and a first distance in the first direction
10 between the liquid crystal dots is equal to or smaller than a second distance in a second direction perpendicular to the first direction between the liquid crystal dots.

2. The method of claim 1, wherein the first and the second distances are in a range of about 5 - 40mm.

3. The method of claim 2, wherein an amount of one drop of the liquid
15 crystal is in a range of about 1 - 15mg.

4. The method of claim 3, wherein the liquid crystal dots comprise a plurality of first dots arranged along a plurality of straight lines.

5. The method of claim 3, wherein the straight lines extend in the second direction such that the first dots form a plurality of dot rows.

20 6. The method of claim 5, wherein the first dots in adjacent two of the dot rows are arranged along a straight line extending in the first direction.

7. The method of claim 5, wherein the first dots in adjacent two of the dot rows are arranged offset in the first direction.

8. The method of claim 7, wherein each of the first dots in one of the dot rows has four equi-distant nearest neighbors of the first dots in adjacent rows.
9. The method of claim 5, wherein a third distance between the sealant and one of the first dots closest to the sealant is equal to or smaller than the first distance.
10. The method of claim 9, wherein the liquid crystal is aligned such that long axes of molecules of the liquid crystal are substantially parallel to a surface of the first and the second panels.
11. The method of claim 9, wherein the liquid crystal comprises nematic liquid crystal.
12. The method of claim 5, wherein a third distance between the sealant and one of the first dots closest to the sealant is equal to or larger than the second distance.
13. The method of claim 12, wherein the liquid crystal is aligned such that long axes of molecules of the liquid crystal are substantially perpendicular to a surface of the first and the second panels.
14. The method of claim 12, wherein the liquid crystal comprises smectic liquid crystal.
15. The method of claim 12, wherein the liquid crystal dots further comprises a plurality of second dots disposed near a corner of the sealant.
16. The method of claim 12, wherein the liquid crystal dots further comprises a plurality of second dots disposed around an edge of the first panel.

17. The method of claim 16, wherein the second dots are smaller than the first dots.

18. The method of claim 17, wherein a third distance in the second direction between one of the second dots and one of the first dots closest to the one of the second dots is equal to or larger than the second distance and equal to or smaller than a fourth distance in the first direction between one of the second dots and one of the first dots closest to the one of the second dots.

19. The method of claim 5, further comprising:
curing the sealant after assembling the first and the second panels.

20. The method of claim 19, wherein the curing of the sealant comprises:
light curing the sealant; and
heat curing the sealant.